Source Water Assessment Report

Public Water Supply: VALLEY FALLS, CITY OF

Assessment Areas Include:
943, 944

Kansas Department of Health and Environment
Bureau of Water Watershed Management Section
1000 SW Jackson St., Suite 420
Topeka, KS 66612−1367

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Reports were generated with the Automated Source Water Assessment Tool (ASWAT). Assessments were completed online using ASWAT by hundreds of state employees, public water supply staff, and technical assistant providers throughout the State of Kansas.

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Report Description

Detailed Explanation of Entire Report:

The 1996 amendments to the Safe Drinking Water Act require each state to develop a Source Water Assessment Program (SWAP) and a Source Water Assessment (SWA) for each Public Water Supply (PWS) that treats and distributes raw source water. In Kansas there are 761 public water supplies that require SWAs. A SWA includes a delineation of the source water assessment area, an inventory of potential contaminant sources, and a susceptibility analysis.

A PWS can consist of one or more individual assessment areas that require different assessments. In general, an assessment area is delineated at a two−mile fixed radius for a groundwater well. A surface water intake assessment area is the upstream−drainage area (watershed), inside the state border. Additionally, an assessment area can consist of an individual well, group of wells, an individual surface water intake, or multiple surface water intakes.

After each assessment is completed a report is automatically generated using an Internet−based application called the Automated Source Water Assessment Tool (ASWAT). The individual assessment reports combine to form the entire SWA report for a PWS.

A map of each Assessment Area was also generated with ASWAT. However, for security reasons the maps are not included in this report. To obtain a copy of the map(s), please contact your local PWS.

All PWS reports will be available for viewing and downloading on KDHE's Watershed Management Section website(http://www.kdhe.state.ks.us/nps) in 2004.

VALLEY FALLS, CITY OF Summary:

AA	Type	Diversion Id
943	Surface water single intake	998
944	Surface water single intake	999

Public Water Supply:	**VALLEY FALLS, CITY OF**
Assessment Area:	**943**
Diversion Id's:	**998**
Status:	**Accepted**
Submit Date:	**2003−03−07 09:41:40**

Executive Summary:

The Executive Summary gives the assessment area's Susceptibility Likelihood Score (SLS) for each contaminant of concern category.

SLS indicates which contaminant category is most likely to impact a given public water supply. Contaminants of concern for groundwater include microbiological, inorganic compounds, nitrates, synthetic organic compounds, pesticides, and volatile organic compounds. Contaminants of concern for surface water include microbiological, inorganic compounds, eutrophication − phosphorus, sedimentation, synthetic organic compounds, pesticides, and volatile organic compounds.

To determine the assessment area's susceptibility to contamination, a qualitative (semi−quantitative) screening level susceptibility analysis was designed that utilizes general assumptions and best professional judgement. It is a systematic procedure comprised of simple yes/no questions. Each question in the susceptibility analysis focuses on the presence or absence of potential pollution sources in the assessment area. SLS is most useful in helping the Public Water Supply (PWS) focus on water quality protection actions towards a contaminant category of concern. For example, if the SLS for microbiological contamination is high, relative to volatile organic compounds (VOC), water supply protection planners would conclude that the attention should be directed towards microbiological contaminant sources rather than VOC sources.

Executive Summary

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Susceptibility Likelihood Scores for Assessment Area

	A	B	B1	B2	C	C*	D
Susceptibility Likelihood Score − SLS	**34**	**32**	**46**	**48**	**32**	**36**	**31**
SLS Range	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**

A − Microbiolgical
B2 − Sedimentation
C* − Pesticides
B − Inorganic Compounds
C − Synthetic Organic Compounds
D − Volatile Organic Compounds
B1 − Eutrophication − Phosphorous

Susceptibility Likelihood Range

SLS Range	
0−50	**Low Susceptibility**
51−80	**Moderate Susceptibility**
81−100	**High Susceptibility**

Public Water Supply: **VALLEY FALLS, CITY OF**
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Potential Sources:

The Potential Sources section lists all the sites that have been identified as potential sources of contamination.

Potential sources of contamination may include land uses, industry, or businesses that could generate or store chemicals/substances that could potentially contaminate the water supply only if released into the environment. Both unregulated sites from business location databases and regulated sites from various KDHE databases were compiled. Additional sites could have been added by an evaluator through the assessment process to supplement the original data.

The 1987 Standard Industrial Classifications (SIC) were used to identify potential contaminate sites. The SIC system classifies establishments into industries on the basis of the primary activities of the establishment.

Each assessment area is delineated with 3 assessment zones. These zones can be used to get a general understanding of the potential influence sites have based on proximity to the water supply. Zone A is a100−foot radius around a groundwater well and a 1000−foot radius around a surface water intake. Zone B is a 2000−foot radius around wells and a hydrological delineated buffer around the surface water sources. Zone C is a 2−mile radius around wells and the balance of the watershed for intakes. The potential sources listed in this section are sorted to show all the potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business is identified in the study as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

The data for the potential sources of contamination was compiled from May through August in 2002. Some of the databases used were incomplete datasets that are continually being updated. Due to the incompleteness, inaccuracies, and new development, it is possible that sources of potential contamination that are in the assessment area are not included in the report. Inaccurate locations could also cause sources to show up in the assessment area that are not actually in the assessment. Additionally, duplication between the datasets could cause sites to show up multiple times in the assessment area.

Potential Sources

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Unregulated Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Confined Animal Feeding Operations Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Identified Contaminated Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Solid Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Waste Water Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

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Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001487	grove of trees	0	B
9001488	pastureland	10087	B

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Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Sedimentation	Pesticides	IOC's	SOC's	VOC's	E − P
0	0	0	0	0	0	0

A − Microbiolgical
B2 − Sedimentation
C* − Pesticides
B − Inorganic Compounds
C − Synthetic Organic Compounds
D − Volatile Organic Compounds
B1 − Eutrophication − Phosphorous

Public Water Supply: **VALLEY FALLS, CITY OF**
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Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A − Microbiolgical **B** − Inorganic Compounds **B1** − Eutrophication − Phosphorous
B2 − Sedimentation **B*** − Nitrates **C** − Synthetic Organic Compounds
C* − Pesticides **D** − Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **VALLEY FALLS, CITY OF**
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Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
Did Not Contain Any Potential Contaminants			

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Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
No Protection Measures Listed				

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Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Surface Water Single Well Analysis

A − Microbiolgical **B** − Inorganic Compounds **B1** − Eutrophication − Phosphorous
B2 − Sedimentation **C** − Synthetic Organic Compounds
C* − Pesticides **D** − Volatile Organic Compounds

No.	Question	Response	A	B	B1	B2	C	C*	D
1	Is the intake located at a treatment plant?	No	1	1	0	0	1	1	1
2	Is there an open channel conveyance from the intake to the treatment plant?	No	0	0	0	0	0	0	0
3	Does a PWS own or control the conveyance right−of−way?	No	1	1	0	0	1	1	1
4	Does a PWS own or control the area within 1/4 mile of intake?	Yes	0	0	0	0	0	0	0
5	Is the area within 1/4 mile of the intake entirely native grass?	Yes	0	0	0	0	0	0	0
6	Is transportation infrastucture in close proximity to the intake?	No	0	0	0	0	0	0	0
7	Are there water quality protection plans for the transportation infrastucture?	Yes	0	0	0	0	0	0	0
8	Are any commercial, industrial, or urban areas present?	No	0	0	0	0	0	0	0
9	Does each industrial/commercial site and urban area have a water quality protection plan in place?	Yes	0	0	0	0	0	0	0
10	Is riparian area vegetated?	Yes	0	0	0	0	0	0	0
11	Has riparian area been farmed up to the stream/riverbank?	No	0	0	0	0	0	0	0
12	Is there a lack of native grass or trees?	No	0	0	0	0	0	1	0
13	Is livestock use present in riparian area?	Yes	1	0	0	0	0	1	0
14	Are any confined livestock production sites in riparian area?	No	0	0	0	0	0	0	0
15	Is each confinement area registered with KDHE?	Yes	0	0	0	0	0	0	0
16	Are any row crops (corn, milo, soybean) present?	No	0	0	0	0	0	0	0
17	Are water quality protection plans in use for each cropland?	Yes	0	0	0	0	0	0	0

No.	Question	Response	A	B	B1	B2	C	C*	D
18	Are any orchards present?	No	0	0	0	0	0	0	0
19	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
20	Is the intake a river intake?	Yes	1	1	0	1	1	1	1
21	Is the intake at a city−owned lake?	No	1	1	1	1	1	1	1
22	Is there water quality monitoring conducted at the river or lake?	Yes	0	0	0	0	0	0	0
23	Is TMDL needed for any of the rivers or lakes?	Yes	1	1	1	1	1	1	1
24	Are TMDL pollutants of concern reported by monitoring?	Yes	0	0	0	0	0	0	0
25	Are any point source discharges within 16 miles upstream of intake?	No	0	0	0	0	0	0	0
26	Is pretreatment required at any of the point sources?	No	0	0	0	0	0	0	0
27	Are all riparian buffers vegetated?	Yes	0	0	0	0	0	0	0
28	Are vegetated riparian buffer and a water quality protection plans in place?	No	1	1	1	1	0	1	0
29	Is there urbanized land within riparian buffer?	No	0	0	0	0	0	0	0
30	Is a NPDES stormwater permit required for the urbanized areas?	No	1	1	1	1	1	1	1
31	Are voluntary water quality protection plans in place for each urbanized area?	Yes	0	0	0	0	0	0	0
32	Is there industrial land use within riparian buffer?	No	0	0	0	0	0	0	0
33	Is NPDES stormwater permit required for industrial areas?	No	1	1	1	1	1	1	1
34	Are voluntary water quality protection plans in place for each industrial area?	Yes	0	0	0	0	0	0	0
35	Are there livestock present?	Yes	1	0	1	0	0	1	0
36	Is there livestock confinement present?	No	0	0	0	0	0	0	0
37	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0	0
38	Are any row crops (corn, milo, soybeans) present?	Yes	0	0	1	1	0	1	0
39	Are water quality protection plans in use for each row crop production?	No	0	0	1	1	0	1	0
40	Are any orchards present?	No	0	0	0	0	0	0	0
41	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
42	Is there any small grain (wheat, oats, barley) production?	Yes	0	0	1	1	0	1	0
43	Are water quality protection plans in use for each small grain production?	No	0	0	1	1	0	1	0
44	Are there unsewered developments (contentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0	0
45	Is a general watershed water quality protection plan in use?	Yes	0	0	0	0	0	0	0
46	Are any point source discharges within 16 miles upstream of intake?	No	1	1	1	0	1	0	1
47	Is pretreatment required at any of the point sources?	No	0	0	0	0	0	0	0

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Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Did Not Receive Any Comments

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Did Not Receive Any Comments

Comments for Regulated Identified Contaminated Sites

Did Not Receive Any Comments

Comments for Regulated Solid Waste Sites

Did Not Receive Any Comments

Comments for Regulated Waste Water Sites

Did Not Receive Any Comments

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Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
grove of trees	9001487	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
pastureland	9001488	This site could contaminate the public water supply.	Nicole Fisher

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Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **943**

Comments for Analysis Questions

Analysis Question	Question Comments	Author
Is a general watershed water quality protection plan in use?	Valley Falls is within the Watershed Protection Plan implemented for Perry Lake with a Federal Grant.	Nicole Fisher

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Executive Summary

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**

Susceptibility Likelihood Scores for Assessment Area

	A	B	B1	B2	C	C*	D
Susceptibility Likelihood Score − SLS	**49**	**49**	**59**	**62**	**52**	**48**	**54**
SLS Range	**Low**	**Low**	**Mid**	**Mid**	**Mid**	**Low**	**Mid**

A − Microbiolgical
B2 − Sedimentation
C* − Pesticides
B − Inorganic Compounds
C − Synthetic Organic Compounds
D − Volatile Organic Compounds
B1 − Eutrophication − Phosphorous

Susceptibility Likelihood Range

SLS Range	
0−50	**Low Susceptibility**
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Potential Sources

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
111070	Veterinary Services, Specialties	742	B
111125	Veterinary Services, Specialties	742	B
113417	Veterinary Services, Specialties	742	B
113446	Animal Specialty Services	752	B
111115	Single−family Housing Construction	1521	B
111924	Single−family Housing Construction	1521	B
113418	Single−family Housing Construction	1521	B
113419	Single−family Housing Construction	1521	B
113511	Single−family Housing Construction	1521	B
113512	Single−family Housing Construction	1521	B
110986	Nonresidential Construction	1542	B
141648	Nonresidential Construction	1542	B
110988	Prefabricated Wood Buildings Manufacturing	2452	B
113490	Newspapers Publishing and Printing	2711	B
113491	Newspapers Publishing and Printing	2711	B
110989	Commercial Printing NEC	2759	B
110990	Fertilizers, Mixing Manufacturing	2875	B

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
111900	Ready−mix Concrete Plant	3273	B
110997	Gasoline Service Station	5541	B
113422	Gasoline Service Station	5541	B
113468	Gasoline Service Station	5541	B
111119	Sporting and Recreational Camps	7032	B
111903	Sporting and Recreational Camps	7032	B
111022	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
113466	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
113499	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
141705	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	B
111023	Auto Truck Repair Service	7538	B
111072	Auto Truck Repair Service	7538	B
113479	Auto Truck Repair Service	7538	B
141671	Auto Truck Repair Service	7538	B
141672	Auto Truck Repair Service	7538	B
113517	Repair Services, Nec	7699	B
141673	Golf Course	7992	B
143864	General Farm, Primarily Crop	191	C
142558	Dairy Farms	241	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
137191	Veterinary Services, Specialties	742	C
137458	Veterinary Services, Specialties	742	C
143827	Veterinary Services, Specialties	742	C
137365	Animal Specialty Services	752	C
141801	Animal Specialty Services	752	C
143865	Animal Specialty Services	752	C
143871	Animal Specialty Services	752	C
107718	Single−family Housing Construction	1521	C
137155	Single−family Housing Construction	1521	C
137370	Single−family Housing Construction	1521	C
137371	Single−family Housing Construction	1521	C
137440	Single−family Housing Construction	1521	C
137453	Single−family Housing Construction	1521	C
137652	Single−family Housing Construction	1521	C
137701	Single−family Housing Construction	1521	C
141587	Single−family Housing Construction	1521	C
141588	Single−family Housing Construction	1521	C
141809	Single−family Housing Construction	1521	C
142593	Single−family Housing Construction	1521	C
142605	Single−family Housing Construction	1521	C
143861	Single−family Housing Construction	1521	C
101671	Nonresidential Construction	1542	C
137438	Nonresidential Construction	1542	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
137205	Highway and Street Construction	1611	C
137427	Sausages and Other Prepared Meats Manufacturing	2013	C
142452	Dog, Cat, and Other Pet Food Manufacturing	2047	C
101632	Prepared Feeds For Animals and Fowls	2048	C
136487	Prepared Feeds For Animals and Fowls	2048	C
137518	Prepared Feeds For Animals and Fowls	2048	C
137267	Newspapers Publishing and Printing	2711	C
137567	Newspapers Publishing and Printing	2711	C
137279	Commercial Printing−Lithographic	2752	C
137369	Commercial Printing NEC	2759	C
137428	Commercial Printing NEC	2759	C
113833	Metal Doors, Sash, and Trim Manufacturing	3442	C
142453	Fabricated Metal Products Manufacturing	3499	C
136631	Farm Machinery and Equipment	3523	C
137154	Farm Machinery and Equipment	3523	C
142454	Farm Machinery and Equipment	3523	C
142616	Construction Machinery Manufacturing	3531	C
137229	Machinery, Except Electrical Manufacturing	3599	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
137243	Machinery, Except Electrical Manufacturing	3599	C
137589	Machinery, Except Electrical Manufacturing	3599	C
143829	Machinery, Except Electrical Manufacturing	3599	C
143868	Machinery, Except Electrical Manufacturing	3599	C
137156	Local Trucking, without Storage	4212	C
137235	Local Trucking, without Storage	4212	C
137445	Local Trucking, without Storage	4212	C
137645	Local Trucking, without Storage	4212	C
137646	Local Trucking, without Storage	4212	C
141805	Local Trucking, without Storage	4212	C
142283	Local Trucking, without Storage	4212	C
137157	Farm Product Warehousing and Storage	4221	C
141808	Farm Product Warehousing and Storage	4221	C
136455	Farm and Garden Machinery	5083	C
142456	Farm and Garden Machinery	5083	C
142601	Farm and Garden Machinery	5083	C
142618	Farm and Garden Machinery	5083	C
137608	Scrap and Waste Materials	5093	C
137647	Scrap and Waste Materials	5093	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
102640	Gasoline Service Station	5541	C
136721	Gasoline Service Station	5541	C
137214	Gasoline Service Station	5541	C
137396	Gasoline Service Station	5541	C
137448	Gasoline Service Station	5541	C
141611	Gasoline Service Station	5541	C
142273	Gasoline Service Station	5541	C
142582	Gasoline Service Station	5541	C
142626	Gasoline Service Station	5541	C
137372	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
137407	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
137417	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
137422	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
137535	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
142606	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C
142646	Top, Body, and Upholstery Repair Shops and Paint Shops	7532	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
136444	Auto Truck Repair Service	7538	C
136490	Auto Truck Repair Service	7538	C
136723	Auto Truck Repair Service	7538	C
136732	Auto Truck Repair Service	7538	C
137173	Auto Truck Repair Service	7538	C
137373	Auto Truck Repair Service	7538	C
137374	Auto Truck Repair Service	7538	C
137379	Auto Truck Repair Service	7538	C
137400	Auto Truck Repair Service	7538	C
137467	Auto Truck Repair Service	7538	C
137470	Auto Truck Repair Service	7538	C
137482	Auto Truck Repair Service	7538	C
137611	Auto Truck Repair Service	7538	C
137612	Auto Truck Repair Service	7538	C
141591	Auto Truck Repair Service	7538	C
142607	Auto Truck Repair Service	7538	C
142637	Auto Truck Repair Service	7538	C
142642	Auto Truck Repair Service	7538	C
136497	Repair Services, Nec	7699	C
137426	Repair Services, Nec	7699	C
137439	Repair Services, Nec	7699	C
137454	Repair Services, Nec	7699	C
137463	Repair Services, Nec	7699	C

Unregulated Potential Site Sources

Source No.	SIC Description	SIC ID	Zone
141592	Repair Services, Nec	7699	C

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000181	Lane, Brian	A−KSJF−SA03	B
2000253	Hermann's Dairy	A−KSJF−M001	B
2000316	Clark, Rollin	A−KSJF−MA16	B
2000399	Myers, Don	A−KSJF−MA07	B
2000440	Will, Roger	A−KSJA−LA02	B
2000464	Eubanks And Will	A−KSJF−LA01	B
2000465	Mc Kinsey, Charles	A−KSJF−SA01	B
2000573	Summerville, Charles	A−KSJF−MA11	B
2000643	Eubanks And Will	A−KSJA−LA01	B
2000795	Heinen, Joseph	A−KSJF−MA05	B
2000814	K4 Cattle Co.	A−KSJF−BA03	B
2001240	Phillips Hereford Farms, C/o Cecil Jim Phillips	A−KSJF−B003	B
2001380	Wood, Roger W.	A−KSJF−BA01	B
2001473	Mangold, John	A−KSJF−S011	B
2000007	Sellman Kennel	A−KSJF−K001	C
2000199	Zimmerman, Gary	A−KSJA−MA03	C

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000254	Hug's Dairy	A−KSJA−M009	C
2000317	Steinlage, Richard	A−MONM−MA10	C
2000331	Kramer, Keith	A−MONM−MA05	C
2000339	Kiefer, Jimmy	A−KSAT−MA14	C
2000362	Heiniger, Cory	A−KSBR−MA05	C
2000363	Wenger, Chester And Marvin	A−KSJA−MA10	C
2000393	Cochren, Mike	A−KSJA−MA22	C
2000406	Phillips Family Dairy	A−KSJA−M003	C
2000409	Snyder, James	A−KSAT−M006	C
2000415	Grollmes, Mark	A−KSNM−S021	C
2000470	Gibson, Rick	A−KSJA−M013	C
2000482	Welch, George	A−KSBR−MA03	C
2000489	Tanking Dairy	A−KSJA−M014	C
2000494	Deters, Urban	A−KSNM−MA01	C
2000503	Sprang, Rick	A−KSAT−MA01	C
2000504	Lierz, Larry Evelyn	A−KSBR−MD06	C
2000507	Mc Kee, S.e. And Son	A−KSJA−MA11	C
2000511	Mc Laughlin, Shirley And	A−KSJA−MA08	C
2000551	Bauman, Galen	A−KSNM−M004	C
2000565	Haverkamp, Donald	A−KSBR−MA02	C
2000620	Meyer, Shirley A.	A−KSBR−BA05	C
2000624	Goodman, Daniel L.	A−KSJA−S017	C
2000663	Fritz, Paul	A−KSNM−MA03	C

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2000676	Rogers, Ralph And Larry	A−KSAT−S004	C
2000693	Rodvelt, Morris	A−KSAT−MA16	C
2000704	Matthias, Larry Etta	A−KSJA−MA09	C
2000805	Banks, Steven	A−KSAT−S012	C
2000827	Rokey, Dwight And Anita	327	C
2000861	Bodenhausen, Dale	A−KSAT−M008	C
2000888	Yaussi, Don	A−KSBR−BA06	C
2000910	Doyle, Lee Scott	A−KSJA−BA07	C
2001043	Woods, David	A−KSBR−SA01	C
2001085	B B Farms	A−KSBR−S002	C
2001102	Sabetha Livestock Auction	A−KSNM−SA02	C
2001116	Area, Robert	A−KSJA−BA08	C
2001182	Noll, Charles	A−KSJF−S001	C
2001206	Selland, Alvin	A−KSAT−S005	C
2001219	Caj Dairy Farm	A−KSJF−M011	C
2001310	Schmitz, David	A−KSJA−S019	C
2001335	Rieger, Bernard	A−KSBR−BA01	C
2001382	Knudson, Eileen	A−MOBR−S012	C
2001392	Heinco, Inc.	274	C
2001438	Lierz, Marvin	A−KSNM−S008	C
2001476	Shamrock Farms	A−KSNM−S003	C
2001490	Knudson Farms, Inc.	A−KSBR−BA03	C
2001594	Doyle, Joe Dan	A−KSJA−BA05	C

Regulated Confined Animal Feeding Operations Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
2001652	Phillips Dairy Farms	A−KSJA−M011	C
2001705	Amon Farms	A−KSJA−S018	C
2001707	Kramer, Don	A−KSNM−S022	C
2001722	Niehues, Wayne	A−KSNM−S014	C
2001748	Edelman, Phillip And Lyle	A−KSNM−BA01	C
2001764	Kickapoo Tribes	A−KSBR−BA02	C
2001801	Blue Ridge Farm, Inc.	A−KSNM−B001	C
2001856	Amon Farms	A−KSJA−S007	C
2001981	J−six Farms, Inc. (80 Farm)	A−KSNM−S015	C
2002008	Hartter, James	A−KSNM−S023	C
2002046	Bloom, Ronald	A−KSNM−B002	C
2002052	M O Farms	A−KSBR−BA04	C
2002219	Royale Farms, Inc.	A−KSJA−S020	C
2002769	Handke Farms Inc.	A−KSAT−C001	C

Regulated Hazardous Waste Potential Site Sources

Did Not Contain Any Of These Potential Site Sources

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000152	Coastal Mart #9103	01809	C

Regulated Leaking Storage Tank Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
3000153	Pemco #244	01811	C
3000435	Jackson Co Shop	05308	C
3000438	Ken's Korner	05348	C
3000477	Usd 335, Jackson Heights Hs	05908	C
3000478	Usd 336, Bus Barn	05909	C
3000561	Ray's 66 Service	06384	C
3000725	Coachhouse Cafe	07104	C
3000989	Holton, Street Dept	12781	C
3001242	Welliever Construction Co	22679	C
3001544	Oldham Sausage	25835	C
3001545	Lovvorn's Garage	25840	C
3001722	Kdot, Holton	26645	C
3001787	Knotty Pine Oil	26908	C
3001896	United Telephone	27403	C
3002001	Usd 441, Wetmore School	28005	C
3002291	Symons Truck Tractor	29519	C
3002388	Nott Standard, Wetmore	30071	C
3002668	Carson, Bob (former E Station)	81226	C

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000488	POWHATTAN PWS	C400700045	C

Regulated Identified Contaminated Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
7000491	EVEREST − USDA	C400770591	C
7000492	HORTON BTA	C400771432	C
7000509	FORBES S−9 SITE	C404303032	C
7000510	JACKSON COUNTY AIRSTRIP	C404370240	C
7000512	FORBES S−1 SITE	C404403027	C

Regulated Solid Waste Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
5000268	City of Valley Falls	0261−S	B
5000330	Kansas Park Resources Authority−Perry State Park	0321−S	B
5000731	Jefferson County Weed Dept.	0711−S	B
5000759	Heinen Custom Operations, Inc.	0737−S	B
5000232	Jackson County/Holton Site	0230−S	C

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000117	MARTIN MARIETTA (NEWELL QRY.)	I−KS54−PO01	B
6000129	ROY BAKER QUARRY, INC.	I−KS73−PO02	B

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6000243	JEFFERSON CO. S.D #2	M−KS54−DO02	B
6000244	JEFFERSON CO. S.D. #6 LAKE SHORE ESTATE	M−KS54−DO06	B
6000387	KANSAS STATE GRANGE CAMP	C−KS43−NO02	B
6000390	FALLEY SCOUT RESERVATION−S.W. CORNER	C−KS54−NO01	B
6000391	PERRY YACHT CLUB	C−KS56−NO01	B
6000395	CAMP JAYHAWK/FALLY SCOUT RESERVATION	C−KS58−NO03	B
6000396	CAMP JAYHAWK/FALLY SCOUT RESERVATION	C−KS58−NO03	B
6000397	SLOUGH CREEK MARINE AND RV	C−KS58−NO04	B
6000398	HENDRIX ACRES (SLOUGH CR/LAKE PERRY)	C−KS58−NO05	B
6000677	HAMM − CLARK #16	I−KS43−PO02	B
6000691	BIOFOODS INC.	I−KS54−NP01	B
6000692	MEIER'S READY MIX	I−KS56−NP01	B
6001277	JEFFERSON CO. S.D. #5	M−KS54−ND05	B
6001278	OSKALOOSA MWTP	M−KS54−OO01	B
6001279	JEFFERSON CO. S.D. #6 LAKE SHORE ESTATE	M−KS54−OO06	B
6001280	OZAWKIE MWTP	M−KS56−NO01	B
6001281	LAKESIDE VILLAGE IMPROVEMENT DISTRICT	M−KS56−NO02	B
6001282	LAKEWOOD HILLS IMPROVEMENT DISTRICT	M−KS56−NO03	B
6001283	JEFFERSON CO. S.D. #3	M−KS56−NO04	B
6001284	JEFFERSON CO. S.D. #8	M−KS56−NO08	B
6001285	JEFFERSON CO. S. D. #10 #11	M−KS56−NO11	B
6001286	JEFFERSON CO. S.D. #2 INDIAN RIDGE	M−KS56−OO02	B
6001287	LAKEWOOD HILLS IMPROVEMENT DISTRICT	M−KS56−OO03	B

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6001288	JEFFERSON CO. SD #7 (LAKE RIDGE)	M−KS56−OO04	B
6001292	KDWP − PERRY STATE PARK OXIDATION #1	M−KS58−NO02	B
6001293	KDWP − PERRY STATE PK OXIDATION #2,3	M−KS58−NO03	B
6001294	KDWP − PERRY STATE PK OXIDATION #2,3	M−KS58−NO03	B
6001295	KDWP − PERRY STATE PK OXIDATION #2,3	M−KS58−NO03	B
6001341	VALLEY FALLS MWTP	M−KS73−OO01	B
6000039	AT T LONG LINES DEPT.	C−MO06−NO01	C
6000106	ALAMO GROUP − KANSAS INC.	I−KS23−CO02	C
6000119	HAMM − EISENBARTH #64	I−KS70−PO02	C
6000136	HAMM − #02 KOPP QUARRY	I−KS95−PO02	C
6000137	HAMM − SCOBY NORTH #10	I−KS95−PO04	C
6000259	KDOT. BROWN CO. REST AREA	M−MO06−OO01	C
6000310	HAMM − MILNE #90	I−KS78−PO01	C
6000373	HOLTON BOWLING CENTER WTF	C−KS23−NO01	C
6000374	P.J.'S RESTAURANT	C−KS23−NO02	C
6000375	KICKAPOO TRUCK STOP WWTF	C−KS24−OO01	C
6000630	HAMM − DIX #50	I−KS11−PO02	C
6000640	OLDHAMS WEBBER ASE DELI	I−KS23−PO01	C
6000641	HAMM − ADAMS #94	I−KS23−PO02	C
6000642	HORTON MUNICIPAL POWER PLANT	I−KS24−CO01	C
6001208	CIRCLEVILLE	M−KS08−NO01	C
6001210	DENISON	M−KS11−OO01	C
6001218	EVEREST MWTP	M−KS18−OO01	C

Regulated Waste Water Potential Site Sources

Source No.	Source Name	ID/Permit No.	Zone
6001219	GOFF MWTP	M−KS21−OO01	C
6001221	HOLTON MWTP	M−KS23−OO01	C
6001222	USD #335 JACKSON HTS. SCHOOLS	M−KS23−OO02	C
6001223	HORTON MWTP	M−KS24−OO01	C
6001224	HORTON MWTP	M−KS24−OO01	C
6001226	HURON MWTP	M−KS26−OO01	C
6001252	MAYETTA MWTP	M−KS40−OO01	C
6001264	MUSCOTAH	M−KS48−OO01	C
6001265	NETAWAKA MWTP	M−KS49−OO01	C
6001297	POWHATTAN	M−KS60−OO01	C
6001301	SABETHA WWTF	M−KS65−IO01	C
6001302	SABETHA WWTF	M−KS65−IO01	C
6001345	WETMORE WWTF	M−KS78−OO01	C
6001348	WHITING MWTP	M−KS81−OO01	C
6001355	KDOT. BROWN CO. REST AREA	M−KS95−OO01	C
6002007	ALAMO GROUP − KS, INC.	P−KS23−OO01	C
6002009	BROCKHOFF MANUFACTURING, INC.	P−KS65−IO01	C

Public Water Supply:	**VALLEY FALLS, CITY OF**
Assessment Area:	**944**
Diversion Id's:	**999**
Status:	**Accepted**
Submit Date:	**2003−03−07 09:46:05**

Added Sources:

The Added Sources section lists all the sites that have been added as potential sources of contamination by an evaluator through the assessment process to supplement the original data.

The potential sources listed in this section are sorted to show the added potential sources in Zone A first, Zone B second, and Zone C third.

Although a facility or business was added as a potential concern, it does not necessarily mean a release or spill has occurred. Contamination could only occur if certain chemical substances are released into the environment and filter into the water supply source.

Added Sources

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9000967	Grove of trees	0	B
9001061	Grove of trees	0	B
9001066	Grove of trees	0	B
9001357	grove of trees	0	B
9001487	grove of trees	0	B
9001517	grove of trees	0	B
9001127	Fuel, grain and feed and hay storage	10026	B
9001238	Fuel, grain and feed and hay storage	10026	B
9001359	Fuel, grain and feed and hay storage	10026	B
9001407	Fuel, grain and feed and hay storage	10026	B
9000968	on−site wastewater facility	10067	B
9000410	pastureland with stock cattle	10080	B
9000965	pastureland	10080	B
9001146	pastureland	10080	B
9001237	pastureland	10080	B
9001488	pastureland	10087	B
9000969	cropland	111	B
9001358	Cropland	111	B
9001628	cropland	111	B
9001408	cropland	115	B

Added Potential Site Sources

Source No.	Source Name	SIC ID	Zone
9001516	cropland	115	B
9001128	cropland	116	B
9000411	Rock Quarry (gravel)	1429	B
9001062	gasoline station	5541	B
9000412	Fuel, grain and feed and hay storage	10026	C
9000966	Fuel, grain and feed and hay storage	10026	C
9000409	dryland cropland	115	C
9001158	Livestock Feedlot	211	C
9000413	Natural Gas pipeline	4600	C

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**
Diversion Id's: **999**
Status: **Accepted**
Submit Date: **2003−03−07 09:46:05**

Potential Contaminants Summary:

The Contaminants Summary shows the number of identified unregulated sources in the assessment area for each contaminant of concern category.

In order to obtain the number or sources for each category, a relationship was correlated between each Standard Industrial Classification (SIC) and the contaminant of concern categories. Each SIC was assessed and associated with contaminant categories. For example, if not managed properly, a car wash (SIC 7542) could potentially contaminate an intake because of inorganic compounds (IOC) and volatile organic compounds (VOC); thus, a car wash is associated with IOCs and VOCs.

A chart displays a count for each contaminant category. The sum for each category represents the total number of identified sources that have been associated with that particular contaminant category. However, the total number of identified sources does not include contaminants from the Added Sources. In our example, a car wash would be considered 2 sources of contamination. It would be a potential source of contamination for IOCs and for VOCs; thus, 1 would be added to the total number of sources in the VOC category and 1 would be added to the IOC category.

Potential Contaminants Summary

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**

Number of Unregulated Site Sources Identified for each Contaminant Category

MicroBiological	Sedimentation	Pesticides	IOC's	SOC's	VOC's	E − P
38	36	5	100	28	75	31

A − Microbiolgical
B2 − Sedimentation
C* − Pesticides
B − Inorganic Compounds
C − Synthetic Organic Compounds
D − Volatile Organic Compounds
B1 − Eutrophication − Phosphorous

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**
Diversion Id's: **999**
Status: **Accepted**
Submit Date: **2003−03−07 09:46:05**

Potential Contaminants Listing:

The Potential Contaminants section lists the contaminant of concern category associated with each Standard Industrial Classification (SIC) found in an assessment area. A complete list of contaminant category codes are located at the bottom of this page.

The relationships defined between the Standard Industrial Classifications (SIC) and the contaminant of concern categories are displayed in a table format. Using our car wash example, the relationships can be better illustrated. A car wash could release IOC and VOC chemical substances. The connection is shown by indicating the SIC, 7542, and the associated contaminant categories, IOC (Category B) and VOC (Category D). However, the contaminants listed are not associated with any Added Sources.

The list is sorted by the SIC source description and it only shows unique SIC sources. For example, an assessment area can have 20 car washes in an assessment area, but the list is only going to show contaminant categories associated with car washes onetime. This is because all car washes have the same SIC and every car wash poses the same potential threat to water intakes.

A − Microbiolgical **B** − Inorganic Compounds **B1** − Eutrophication − Phosphorous
B2 − Sedimentation **B*** − Nitrates **C** − Synthetic Organic Compounds
C* − Pesticides **D** − Volatile Organic Compounds

Potential Contaminants Listing

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**

Unregulated Identified Site Sources and associated Potential Contaminant Category

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7538	Auto Truck Repair Service	Inorganics, VOCs	B
"	"	"	D
3531	Construction Machinery Manufacturing	inorganics, VOCs	B
"	"	"	D
2047	Dog, Cat, and Other Pet Food Manufacturing	BOD, oil and grease, TSS	A
"	"	"	B
3499	Fabricated Metal Products Manufacturing	inorganics, VOCs	B
"	"	"	D
2875	Fertilizers, Mixing Manufacturing	Nitrogen, phosphorous	B
"	"	"	B*
5541	Gasoline Service Station	Inorganics, VOCs	B
"	"	"	D
7992	Golf Course	Fertilizers and pesticides	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
1611	Highway and Street Construction	Sedimentation	B2
4212	Local Trucking, without Storage	VOCs	D
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	B
"	"	"	D
3442	Metal Doors, Sash, and Trim Manufacturing	inorganics	B
"	"	"	D
1542	Nonresidential Construction	Sedimentation	B2
2452	Prefabricated Wood Buildings Manufacturing	TSS	B
"	"	"	D
3273	Ready−mix Concrete Plant	Minerals and TSS	B
2013	Sausages and Other Prepared Meats Manufacturing	BOD, pathogens, Oil and grease	A
"	"	"	B*
5093	Scrap and Waste Materials	Metals, TSS	B
1521	Single−family Housing Construction	Oil, Paint, Pesticides, Fertilizers	A
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	B

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	D
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	A
"	"	"	B
752	Animal Specialty Services	Sanitary, fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
2752	Commercial Printing−Lithographic	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
241	Dairy Farms	Sanitary, fertilizers	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
3523	Farm Machinery and Equipment	inorganics	B
"	"	"	D
4221	Farm Product Warehousing and Storage	TSS, VOCs	B
"	"	"	D
5083	Farm and Garden Machinery	inorganics	B
191	General Farm, Primarily Crop	fertilizers, Pesticides	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	B
"	"	"	C
"	"	"	D
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	A
"	"	"	B
"	"	"	B1
"	"	"	B2
"	"	"	B*
"	"	"	C*

Unregulated Identified Site Sources and associated Potential Contaminant Category.

SIC ID	SIC Source	Potential Contaminant	Contaminant Category
7699	Repair Services, Nec	inorganics	B

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Protection Measures:

The Protection Measures section shows water quality protection measures for the Standard Industrial Classifications (SIC) identified in the assessment area.

Previous sections of this report are designed to show areas that Public Water Supplies (PWS) can focus on to improve the susceptibility of an assessment area. This section helps identify water quality protection measures that a PWS can use as guidance for implementing action for a potential contaminant site in the assessment area. It focuses on protection measures that can reduce the risk of contamination to the water supply.

This portion of the report only displays water quality protection measures for each type of SIC found in the assessment area. It does not display protection measures for each site in the assessment area because every SIC should have the same or similar water quality protection management practices. However, the protection measures listed are not associated with any Added Sources.

Protection Measures

Public Water Supply: **VALLEY FALLS, CITY OF**
Assessment Area: **944**

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7538	Auto Truck Repair Service	Inorganics, VOCs	Discharge to POTW. Manage oil products and used oil so that it is not in contact with water	40 CFR 442 and
3531	Construction Machinery Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2047	Dog, Cat, and Other Pet Food Manufacturing	BOD, oil and grease, TSS	Wastewater pretreatment and/or discharge to a POTW	40 CFR 122 and State or federal Storm water pollution prevention regulations
3499	Fabricated Metal Products Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
2875	Fertilizers, Mixing Manufacturing	Nitrogen, phosphorous	Minimize contact of product with water. Contain and treat process wastewater Protect product from contact with water.	40 CFR 418 and State or federal Storm water pollution prevention regulations
5541	Gasoline Service Station	Inorganics, VOCs	Maintain area to minimize fuel contamination	NA

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7992	Golf Course	Fertilizers and pesticides	Proper application of fertilizers and pesticides. Proper cleaning of equipment and disposal of chemicals.	KDHE, KAR 28−16
1611	Highway and Street Construction	Sedimentation	Erosion and Sediment Control	KAR 28−16, KDHE
4212	Local Trucking, without Storage	VOCs	Discharge to a POTW	State or federal Storm water pollution prevention regulations
3599	Machinery, Except Electrical Manufacturing	inorganics, VOCs	Manage wastes properly and treat process wastewater prior to discharge to a POTW or direct	State or federal Storm water pollution prevention regulations
3442	Metal Doors, Sash, and Trim Manufacturing	inorganics	Minimize outdoor storage and control storm water runoff. Pre−treat process wastewater prior to discharge to POTW	State or federal Storm water pollution prevention regulations
1542	Nonresidential Construction	Sedimentation	Erosion and Sediment Control	KAR 28−16, KDHE

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
2452	Prefabricated Wood Buildings Manufacturing	TSS	Discharge of process waters to POTW. Minimize outdoor storage.	State or federal Storm water pollution prevention regulations
3273	Ready−mix Concrete Plant	Minerals and TSS	Minimize outdoor storage and control storm water runoff.	State or federal Storm water pollution prevention regulations
2013	Sausages and Other Prepared Meats Manufacturing	BOD, pathogens, Oil and grease	Wastewater pretreatment and/or discharge to a POTW	40 CFR 432 and State or federal Storm water pollution prevention regulations
5093	Scrap and Waste Materials	Metals, TSS	Minimize contact with storm water	State or federal Storm water pollution prevention regulations
1521	Single−family Housing Construction	Oil, Paint, Pesticides, Fertilizers	Proper cleaning and disposal of household hazardous waste. Proper storage, application, and clean up of pesticides and fertilizers	KAR 28−48, KDHE, KDEM
7032	Sporting and Recreational Camps	sanitary, fertilizers, pesticides	Discharge to POTW. Minimize use of lawn chemicals	KAR 28−5

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	Inorganics, VOCs	Discharge to POTW. Recycle where appropriate. Properly maintain oil product and waste. Manage paint and solvent wastes properly	NA
742	Veterinary Services, Specialties	Sanitary, Inorganics TSS	Discharge to POT	NA
752	Animal Specialty Services	Sanitary, fertilizers	Collect and treat wastes.	NA
2759	Commercial Printing NEC	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2752	Commercial Printing−Lithographic	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
241	Dairy Farms	Sanitary, fertilizers	Collect and treat process wastes. Use good erosion control practices. Minimize storm water contact with contaminants.	40 CFR 405

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
3523	Farm Machinery and Equipment	inorganics	Discharge to POTW	State or federal Storm water pollution prevention regulations
4221	Farm Product Warehousing and Storage	TSS, VOCs	Keep the area clean of grain. Use grease traps.	State or federal Storm water pollution prevention regulations
5083	Farm and Garden Machinery	inorganics	Discharge to POTW	NA
191	General Farm, Primarily Crop	fertilizers, Pesticides	Maintain good erosion control practices and minimize the use of chemicals	NA
2711	Newspapers Publishing and Printing	Inorganics, VOCs, Semi volatiles	Recycle chemicals where possible. Discharge to POTW	40 CFR 459 and State or federal Storm water pollution prevention regulations
2048	Prepared Feeds For Animals and Fowls	Sanitary, Nitrates, phosphorous and pesticides	Maintain animal feeding areas and feed storage areas to minimize contact with storm water. Collect and treat process wastes.	40 CFR 412 and State or federal Storm water pollution prevention regulations

Recommended Water Quality Protection Measures

SIC	SIC Source	Contaminant Source	Water Quality Protection Measure	Regulatory Authority
7699	Repair Services, Nec	inorganics	Discharge to POTW	NA

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Assessment Analysis:

The Assessment Analysis section displays the numbers assigned to each contaminant of concern category for each question in the susceptibility analysis.

This analysis is based on a decision tree framework consisting of a series of yes/no questions. These questions consider the proximity of contaminant sources to the water supply intake, the type of contaminant, and the application of pollution prevention or water quality protection practices to sources of contamination. As the evaluator moves through the analytical framework, susceptibility points are accumulated based on the presence of contaminant sources in the assessment area.

After all the questions have been answered, the SLS is calculated for each contaminant of concern category. The SLS is determined by counting the number of contamination risk factors found to occur in the delineated assessment area and applying a multiplier to this number. Because the number of contaminant category risk factors is not equal, the multiplier is used to establish a common scale for the SLS of each contaminant category.

Assessment Analysis

Public Water Supply: **VALLEY FALLS, CITY OF**
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Surface Water Single Well Analysis

A − Microbiolgical **B** − Inorganic Compounds **B1** − Eutrophication − Phosphorous
B2 − Sedimentation **C** − Synthetic Organic Compounds
C* − Pesticides **D** − Volatile Organic Compounds

No.	Question	Response	A	B	B1	B2	C	C*	D
1	Is the intake located at a treatment plant?	No	1	1	0	0	1	1	1
2	Is there an open channel conveyance from the intake to the treatment plant?	No	0	0	0	0	0	0	0
3	Does a PWS own or control the conveyance right−of−way?	No	1	1	0	0	1	1	1
4	Does a PWS own or control the area within 1/4 mile of intake?	Yes	0	0	0	0	0	0	0
5	Is the area within 1/4 mile of the intake entirely native grass?	No	1	1	0	0	1	1	1
6	Is transportation infrastucture in close proximity to the intake?	No	0	0	0	0	0	0	0
7	Are there water quality protection plans for the transportation infrastucture?	Yes	0	0	0	0	0	0	0
8	Are any commercial, industrial, or urban areas present?	Yes	1	1	0	0	1	1	1
9	Does each industrial/commercial site and urban area have a water quality protection plan in place?	No	1	1	0	0	1	1	1
10	Is riparian area vegetated?	Yes	0	0	0	0	0	0	0
11	Has riparian area been farmed up to the stream/riverbank?	No	0	0	0	0	0	0	0
12	Is there a lack of native grass or trees?	No	0	0	0	0	0	1	0
13	Is livestock use present in riparian area?	No	0	0	0	0	0	0	0
14	Are any confined livestock production sites in riparian area?	No	0	0	0	0	0	0	0
15	Is each confinement area registered with KDHE?	Yes	0	0	0	0	0	0	0
16	Are any row crops (corn, milo, soybean) present?	Yes	0	0	0	0	0	1	0
17	Are water quality protection plans in use for each cropland?	No	0	0	0	0	0	1	1

No.	Question	Response	A	B	B1	B2	C	C*	D
18	Are any orchards present?	No	0	0	0	0	0	0	0
19	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
20	Is the intake a river intake?	Yes	1	1	0	1	1	1	1
21	Is the intake at a city−owned lake?	No	1	1	1	1	1	1	1
22	Is there water quality monitoring conducted at the river or lake?	Yes	0	0	0	0	0	0	0
23	Is TMDL needed for any of the rivers or lakes?	No	0	0	0	0	0	0	0
24	Are TMDL pollutants of concern reported by monitoring?	No	1	1	1	1	1	1	1
25	Are any point source discharges within 16 miles upstream of intake?	Yes	1	1	1	1	1	0	1
26	Is pretreatment required at any of the point sources?	Yes	1	1	1	1	1	0	1
27	Are all riparian buffers vegetated?	Yes	0	0	0	0	0	0	0
28	Are vegetated riparian buffer and a water quality protection plans in place?	No	1	1	1	1	0	1	0
29	Is there urbanized land within riparian buffer?	No	0	0	0	0	0	0	0
30	Is a NPDES stormwater permit required for the urbanized areas?	No	1	1	1	1	1	1	1
31	Are voluntary water quality protection plans in place for each urbanized area?	Yes	0	0	0	0	0	0	0
32	Is there industrial land use within riparian buffer?	No	0	0	0	0	0	0	0
33	Is NPDES stormwater permit required for industrial areas?	No	1	1	1	1	1	1	1
34	Are voluntary water quality protection plans in place for each industrial area?	Yes	0	0	0	0	0	0	0
35	Are there livestock present?	Yes	1	0	1	0	0	1	0
36	Is there livestock confinement present?	Yes	1	0	1	0	0	1	0
37	Is each confined livestock facility registered with KDHE?	Yes	0	0	0	0	0	0	0
38	Are any row crops (corn, milo, soybeans) present?	Yes	0	0	1	1	0	1	0
39	Are water quality protection plans in use for each row crop production?	No	0	0	1	1	0	1	0
40	Are any orchards present?	No	0	0	0	0	0	0	0
41	Are water quality protection plans in use for each orchard?	Yes	0	0	0	0	0	0	0
42	Is there any small grain (wheat, oats, barley) production?	Yes	0	0	1	1	0	1	0
43	Are water quality protection plans in use for each small grain production?	No	0	0	1	1	0	1	0
44	Are there unsewered developments (contentrations of lagoons or septic systems) present in Zone B?	No	0	0	0	0	0	0	0
45	Is a general watershed water quality protection plan in use?	Yes	0	0	0	0	0	0	0
46	Are any point source discharges within 16 miles upstream of intake?	Yes	0	0	0	0	0	0	0
47	Is pretreatment required at any of the point sources?	Yes	1	1	1	1	1	0	1

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Site Comments:

The Site Comments section lists all the comments that were added for the potential sources of contamination found in the assessment area.

Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding detail to the sites that can be referenced for more information.

This local information may include comments on potential contamination threats (or lack there of), local water quality protection initiatives, etc. Adding comments are optional and are mainly focused on sources in areas that could have the greatest impact on water supply if a spill or release occurred in the environment. It is left to the discretion of the PWS and/or source water assessment committee to add comments.

Site Comments

Public Water Supply: **VALLEY FALLS, CITY OF**
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Comments for Unregulated Sites

Did Not Receive Any Comments

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Hermann's Dairy	2000253	This dairy facility has no groundwater monitoring requirements.	Nicole Fisher
Kiefer, Jimmy	2000339	This dairy facility has no groundwater monitoring requirements.	Nicole Fisher
Knudson Farms, Inc.	2001490	This cattle livestock facility has no water quality protection plans.	Nicole Fisher
Matthias, Larry Etta	2000704	This dairy facility has no groundwater monitoring requirements.	Nicole Fisher
Mc Kinsey, Charles	2000465	This swine facility has no groundwater monitoring.	Nicole Fisher
Mc Laughlin, Shirley And	2000511	This dairy facility has no groundwater monitoring requirements.	Nicole Fisher

Comments for Regulated Confined Animal Feeding Operations Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Myers, Don	2000399	This dairy facility has no groundwater monitoring requirements.	Nicole Fisher
Noll, Charles	2001182	This swine facility has no groundwater monitoring.	Nicole Fisher
Royale Farms, Inc.	2002219	This swine and kennel operation have no groundwater monitoring requirements.	Nicole Fisher
Schmitz, David	2001310	This swine and beef facility has no groundwater monitoring requirements.	Nicole Fisher
Selland, Alvin	2001206	This swine facility has no groundwater monitoring.	Nicole Fisher
Wenger, Chester And Marvin	2000363	This dairy facility has no groundwater monitoring requirements.	Nicole Fisher

Comments for Regulated Hazardous Waste Sites

Did Not Receive Any Comments

Comments for Regulated Leaking Storage Tank Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
Usd 335, Jackson Heights Hs	3000477	The site is closed from a 1990 gasoline spill. No groundwater contamination was suspected.	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
FORBES S−9 SITE	7000509	The site was used as a Atlas−E Nuclear Missile Facility in the 1960's and contains elevated levels of refined petroleum in the groundwater and soil. For more information contact Daniel Gravatt (785) 296−6378	Nicole Fisher

Comments for Regulated Identified Contaminated Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
JACKSON COUNTY AIRSTRIP	7000510	This site is being evaluated for long term monitoring due to discharge of rinse water from cleaning aerial applicator equipment. The groundwater and surface water were contaminated with pesticides. For information contact Brian Conrad (785) 296−5519	Nicole Fisher

Comments for Regulated Solid Waste Sites

Did Not Receive Any Comments

Comments for Regulated Waste Water Sites

Potential Contaminant Site Name	Site No.	Site Comments	Author
HENDRIX ACRES (SLOUGH CR/LAKE PERRY)	6000398	This facility uses non−discharging lagoons.	Nicole Fisher
JEFFERSON CO. S. D. #10 #11	6001285	This facility uses non−discharging lagoons.	Nicole Fisher
JEFFERSON CO. S.D. #3	6001283	This facility uses non−discharging lagoons.	Nicole Fisher
KANSAS STATE GRANGE CAMP	6000387	This facility uses non−discharging lagoons.	Nicole Fisher
MEIER'S READY MIX	6000692	This facility uses non−discharging lagoons.	Nicole Fisher
PERRY YACHT CLUB	6000391	This facility uses non−discharging lagoons.	Nicole Fisher
SLOUGH CREEK MARINE AND RV	6000397	This facility uses non−discharging lagoons.	Nicole Fisher

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Added Site Comments:

The Added Site Comments section lists the comments for why sites were added as a potential source of contamination found to the assessment area.

Added Site Comments

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Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Cropland	9001358	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9000412	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Fuel, grain and feed and hay storage	9000966	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001127	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001238	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001359	This site could contaminate the public water supply.	Nicole Fisher
Fuel, grain and feed and hay storage	9001407	This site could contaminate the public water supply.	Nicole Fisher
Grove of trees	9000967	This site is an important buffer system to prevent contamination into the public water supply.	Nicole Fisher
Grove of trees	9001061	This is an important buffer to prevent contaminates into the public water supply.	Nicole Fisher
Grove of trees	9001066	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
Livestock Feedlot	9001158	Proposed feedlot	Mike Clowe
Natural Gas pipeline	9000413	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
Rock Quarry (gravel)	9000411	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
cropland	9000969	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001128	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001408	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001516	This site could contaminate the public water supply.	Nicole Fisher
cropland	9001628	This site could contaminate the public water supply.	Nicole Fisher
dryland cropland	9000409	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher
gasoline station	9001062	This site could contaminate the public water supply.	Nicole Fisher
grove of trees	9001357	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
grove of trees	9001487	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher

Comments for Added Contaminant Sites

Added Contaminant Site Name	Site No.	Site Comments	Author
grove of trees	9001517	This is an important buffer to prevent contamination into the public water supply.	Nicole Fisher
on−site wastewater facility	9000968	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9000965	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9001146	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9001237	This site could contaminate the public water supply.	Nicole Fisher
pastureland	9001488	This site could contaminate the public water supply.	Nicole Fisher
pastureland with stock cattle	9000410	This information was obtained from the Wellhead Protection Plan.	Nicole Fisher

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Analysis Question Comments:

The Analysis Question Comments section lists all the comments that were added during analysis portion of the assessment, in which a series of yes/no questions were asked.

Evaluators have the option to add comments to questions to clarify why a response was given or to give more details to a question. Local comments and feedback from people that are familiar with the assessment area is an important aspect of the assessment. The comments greatly improve the assessment by adding clarification and details that could not be identified with a simple yes or no response.

Analysis Question Comments

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Comments for Analysis Questions

Analysis Question	Question Comments	Author
Did Not Receive Any Comments		